

CLAIMS

Sub  
B1  
1. A portable computer comprising movement detection means responsive to movement of the computer to produce an electrical output signal representative of such movement, processing means responsive to the output of said position detection means to determine detected movement data defining a user's intention, the processing means using said data to provide a mode response selected from a multiplicity of stored possible modes.

10 2. A portable computer as claimed in claim 1, in which the movement detection means comprises at least one acceleration detection means responsive to movement of the computer to produce the output electrical signal.

3. A portable computer as claimed in claimed 2, in which a plurality of acceleration detection means each producing a respective electrical output signal representative of movement component in respective directions are provided.

4. A portable computer as claimed in claim 3, in which the detectors are mounted to detect x and y movement components at a 90° angle to each other.

20 a 5. A portable computer as claimed in any one of claims 1 to 4, in which the processing means includes a data input mode and detected movement data is used to generate alphanumeric or graphical data.

25 6. A portable computer as claimed in claim 5, in which the generated alphanumeric or graphical data is stored in a data store.

30 7. A portable computer as claimed in claim 5, in which the alphanumeric or graphical data is output by transmitting means to receiving means connected to another processing device.

claim 1  
a 8. A portable computer as claimed in ~~any preceding claim~~, in which the processing means includes a screen output mode in which detected movement data is used to modify output to display means of the computer.

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9. A portable computer as claimed in claim 8, whereby detected movement data is used to effect scrolling of displayed information such that portions of data defining alphanumeric or graphic information outside a currently displayed screen  
5 may be selected by the user.

10. A portable computer as claimed in claim 9, in which a relative lateral tilting movement causes the display of information stored as to one or other side of the currently display information.

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a 11. A portable computer as claimed in claim 9 ~~or claim 10~~, in which relative rolling movement causes the display of information stored as above or below the currently displayed information.

a 12. A portable computer as claimed in ~~any one of claims 8 to 11~~, in which the processing means is responsive to detected movement data to determine a most likely orientation of the computer display means, the processing means causing the displayed information to be oriented accordingly.

20 13. A portable computer as claimed in claim 12, in which a plurality of switch means responsive to user action is included adjacent to the display means, the respective function of each of the switch means being oriented to match the orientation of displayed information.

a 25 14. A portable computer as claimed in claim 12 ~~or claim 13~~, comprising a touch sensitive static potentiometer strip responsive to movement of a users finger to simulate movement of a potentiometer, the orientation of said potentiometer reflecting the orientation of the displayed information.

a 30 15. A portable computer as claimed in ~~any one of claims 8 to 14~~, including proximity detection means which provides signals indicative of the proximity of the computer display screen to a user's view, the processing means being further responsive to changes in relative proximity to increase or decrease the density of displayed information.

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a 16. A portable computer as claimed in <sup>claim 1</sup> ~~any preceding claim~~, in which the processing means stores data defining an authorised user's password, the processing means being locked in a secure mode until detected movement data  
5 corresponding to the security data is received.

a 17. A portable computer as claimed in <sup>claim 1</sup> ~~any preceding claim~~, further comprising a sound input device, the processing means being responsive to voice input signals from a user to derive alphanumeric data.

10 a 18. A portable computer as claimed in <sup>claim 1</sup> ~~any preceding claim~~, including a sound output device, the processing means being arranged to provide output of speech or other sound signals derived from stored data.

15 19. A portable computer as claimed in claim 17, further including a sound output device in combination with a radio transceiver whereby cellular or radio telephony networks may be used.

a 20. A portable computer as claimed in ~~any one of claims 1 to 8~~, including  
20 radio transmission or infrared transmission means, the processing means being responsive to detected movement data to output to the transmission means signals representative of the detected movement.

a 21. A portable computer as claimed in ~~any one of claims 1 to 8~~, including  
25 radio transmission or infrared transmission means, the processing means being responsive to detected movement data to output to the transmission means signals representative of alphanumeric characters.

a 22. A portable computer as claimed in <sup>claim 1</sup> ~~any preceding claim~~, including radio  
30 transceiver means, the processing means being responsive to detected movement data which identifies another device to cause the transmission of coded signals including a message for display.

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23. A portable computer as claimed in ~~claimed~~ in claim 22 in which the processing means is responsive to received encoded radio signals to activate a paging alert.

5 24. A portable computer as claimed in claim 23, in which the page alert comprises a tone.

25. A portable computer as claimed in claim 23, in which the paging alert comprises a operation of a vibrating means.

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*a* 26. A portable computer as claimed in ~~any of claims 22 to 25~~, in which the processing means causes the display of a message derived from the information received.

*a* 27. A portable computer as claimed in ~~any preceding claim~~, *claim 1* housed in a casing shaped to facilitate a user holding the computer as a writing stylus.

28. A portable computer as claimed in claim 27, in which the casing comprises a radiused triangular cross-section along a substantial portion of its length.

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29. A portable computer as claimed in claim 28, in which the casing includes a flattened section incorporating a display screen.

30. A portable computer as claimed in claim 29, in which the casing includes  
25 angular shaping between a forward holding area adapted to rest in the user's fingers and rearward flattened area holding a display screen the shaping being such as to provide a natural viewing angle of the incorporated display screen while the casing is held as a writing stylus.

30 31. A portable computer as claimed in claim 30, in which the shaping causes the rearward screen area to be supported by the dorsal areas of a user's hand.

*Add B2*

*Add C6*

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